

Fig 1

Consensus

X_n -D-X_n -EE-X_n -DPiDgt-X_n -wd-X₁₁-GG-X_n

Impase1

47 70 90 219 232
X₄₆-D-X₂₂-EE-X₁₈-DPIDGT-X₁₂₃-WD-X₁₁-GG-X₅₇

Iptase

54 79 153 315 328
X₅₃-D-X₂₄-EE-X₇₂-DPIDST-X₁₅₆-WD-X₁₁-GG-X₇₀

Fbpase1

75 98 119 280 293
X₇₄-D-X₂₂-EE-X₁₉-DPLDGS-X₁₅₅-YE-X₁₁-GG-X₄₄

Fig 2

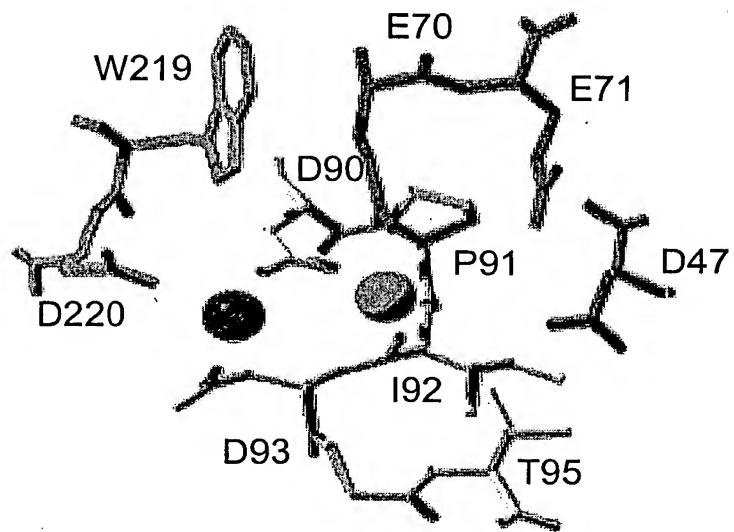


Fig 3

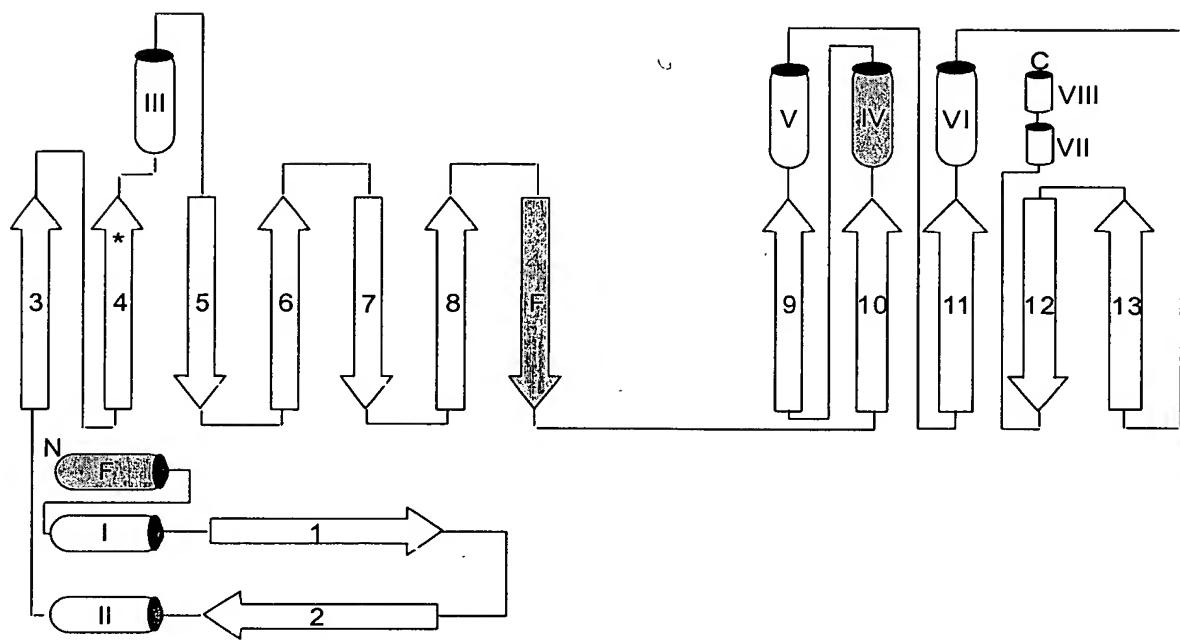


Fig 4

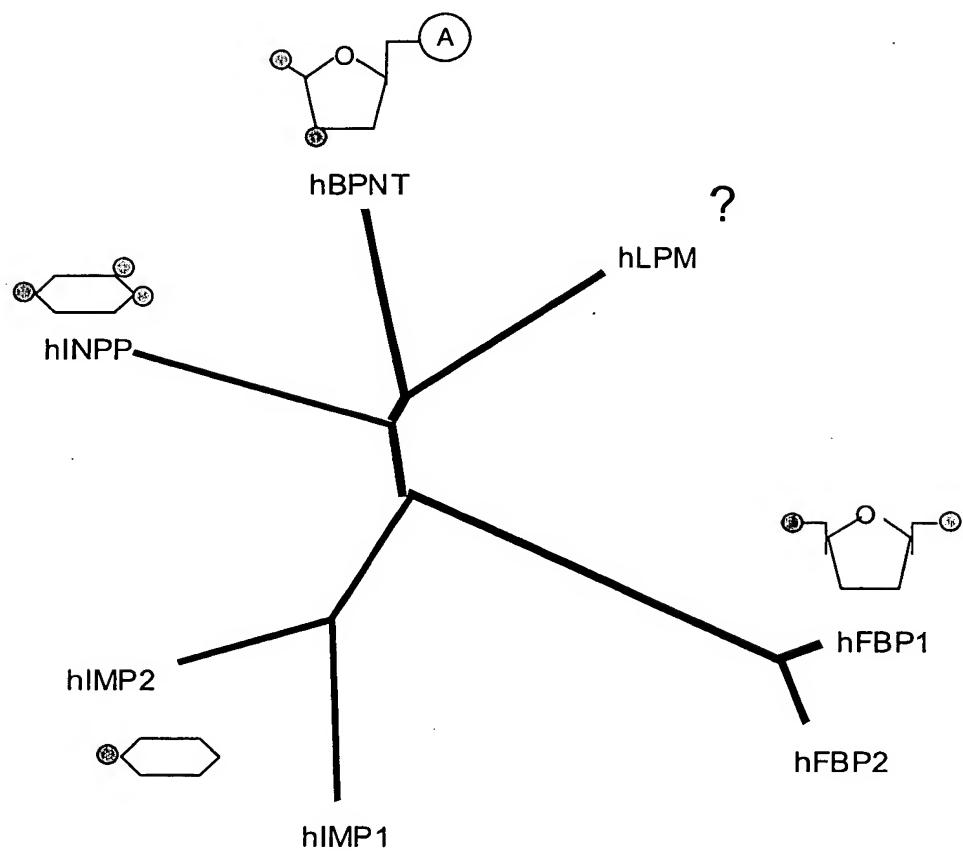


Fig 5

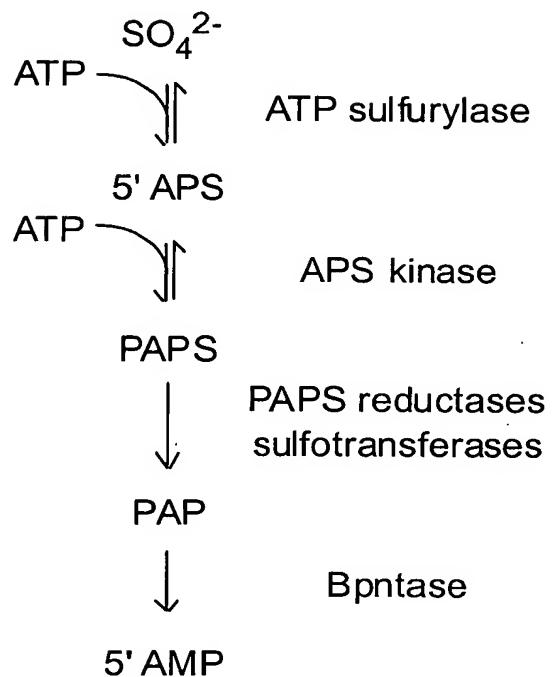


Fig 6

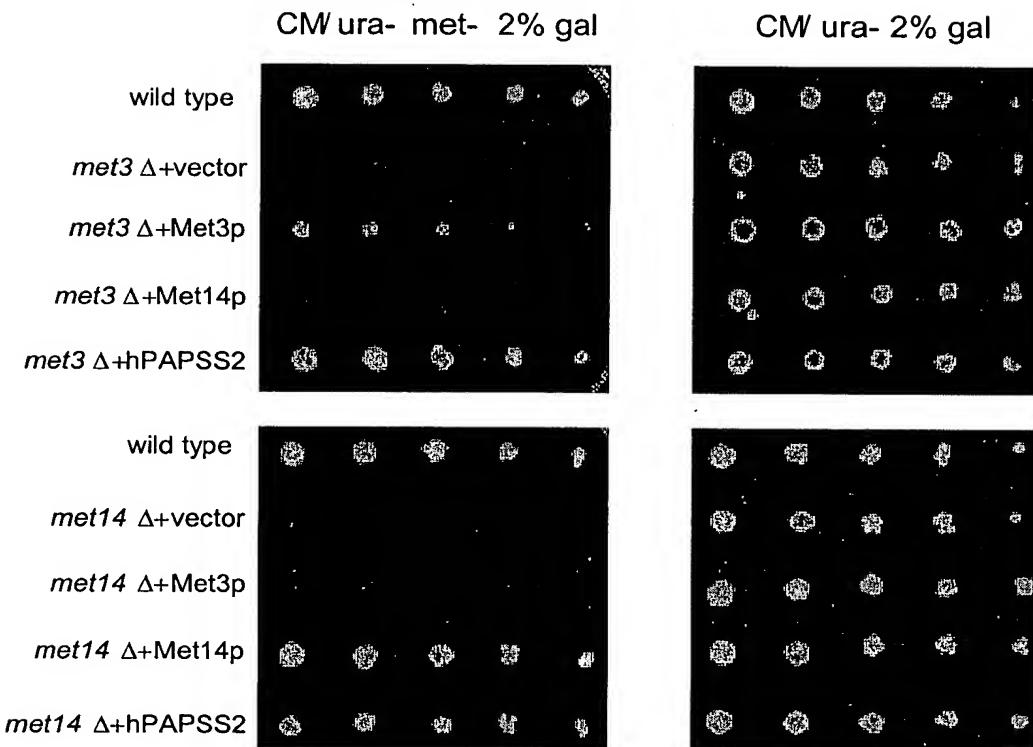


Fig 7

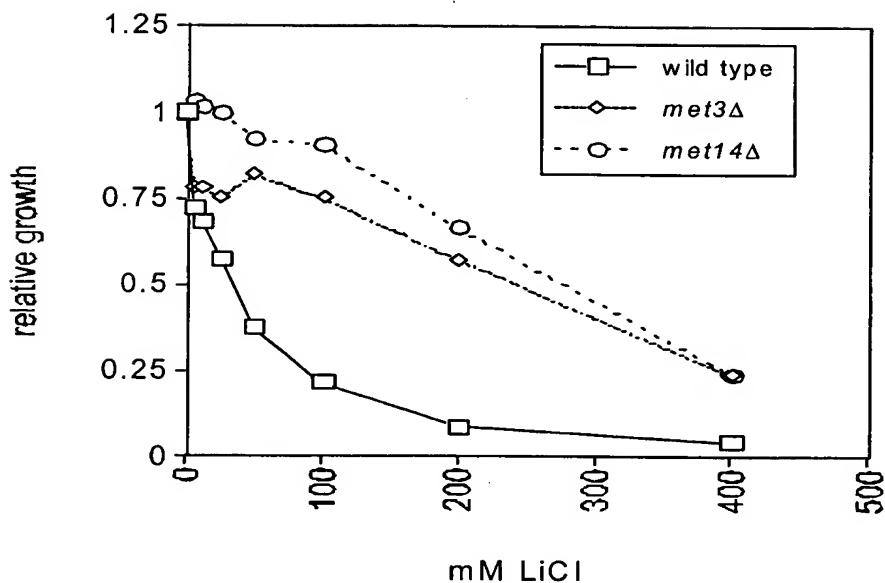


Fig 8

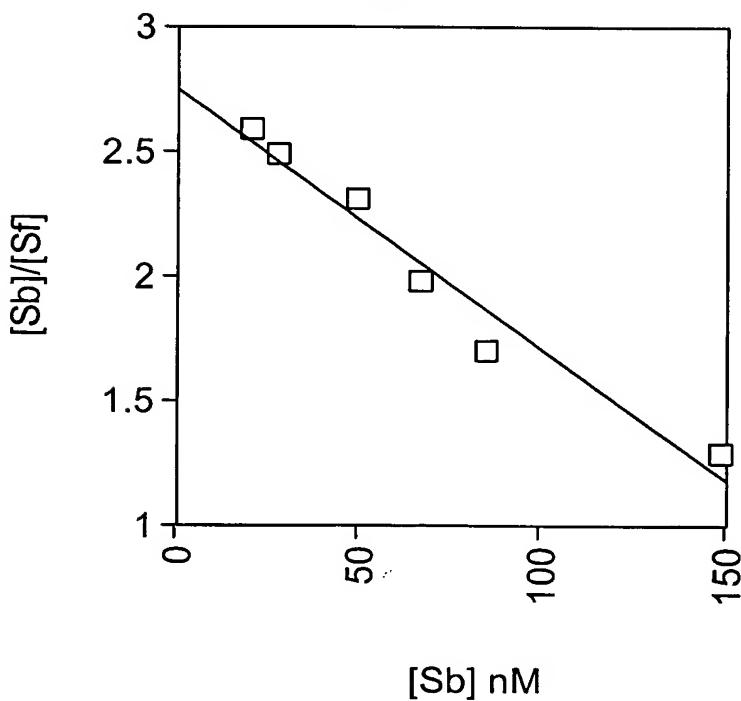


Fig 9

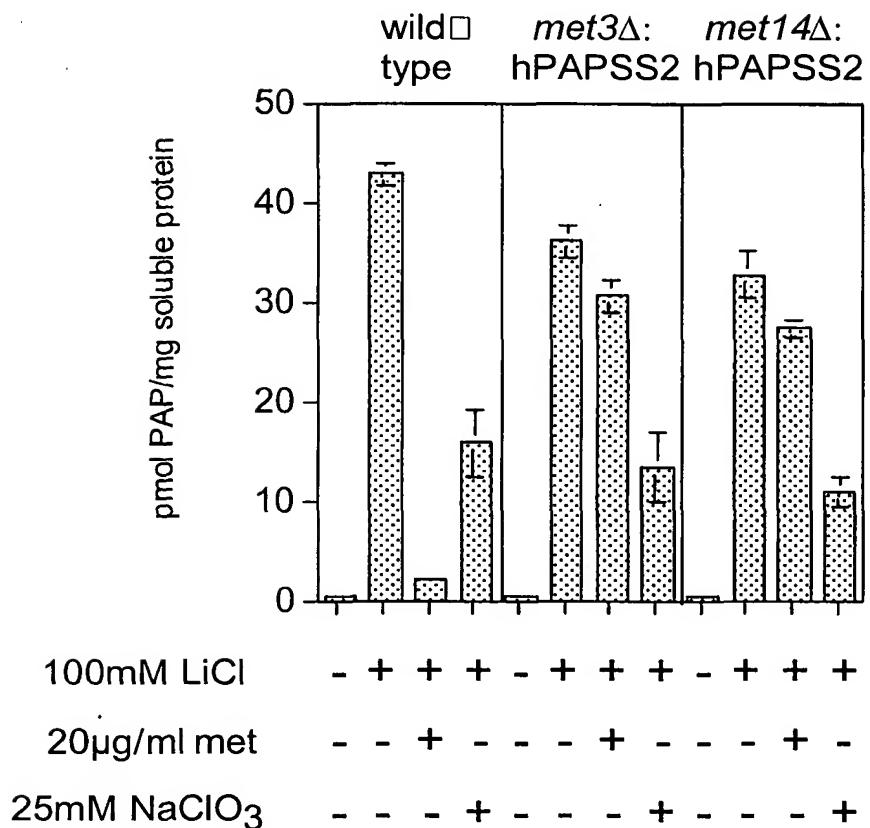


Fig 10

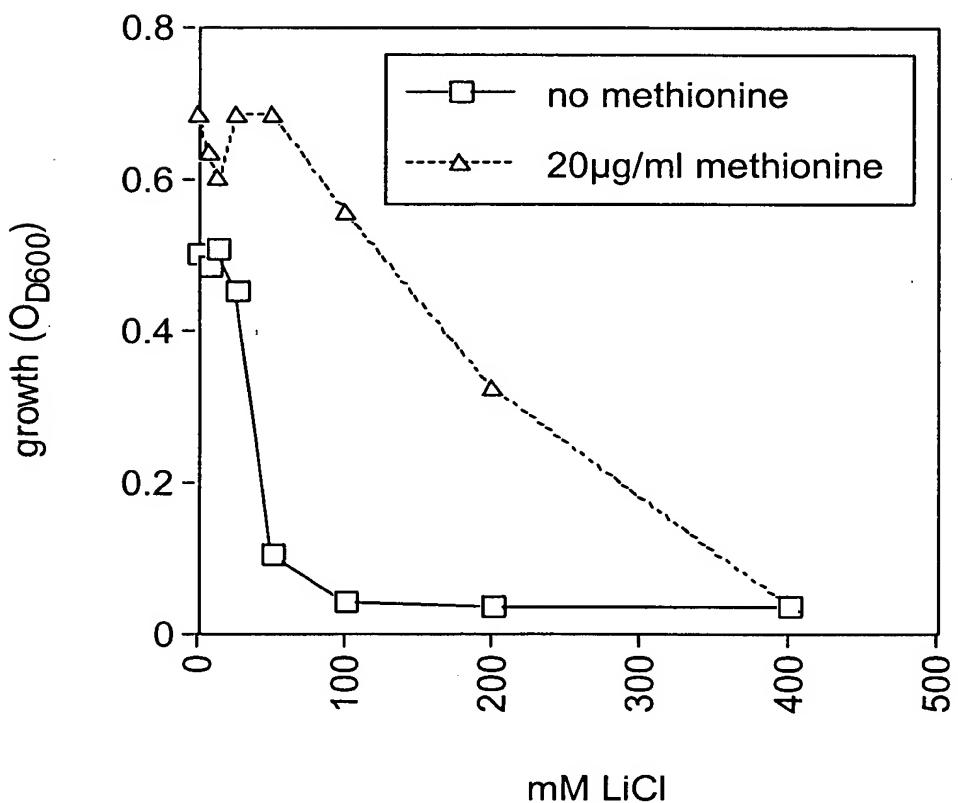


Fig 11

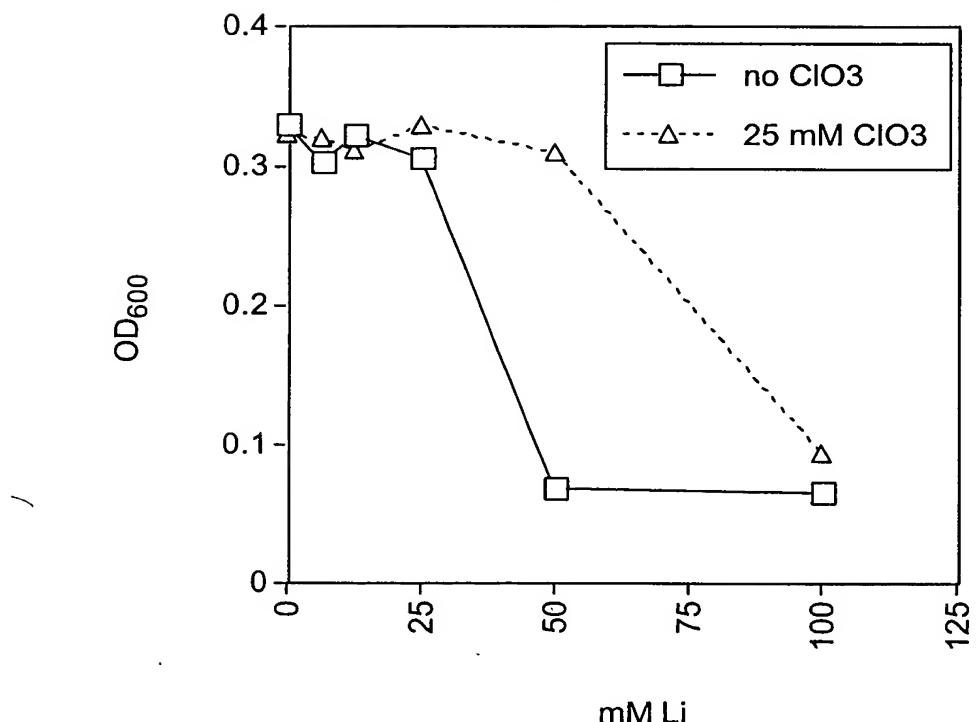


Fig 12

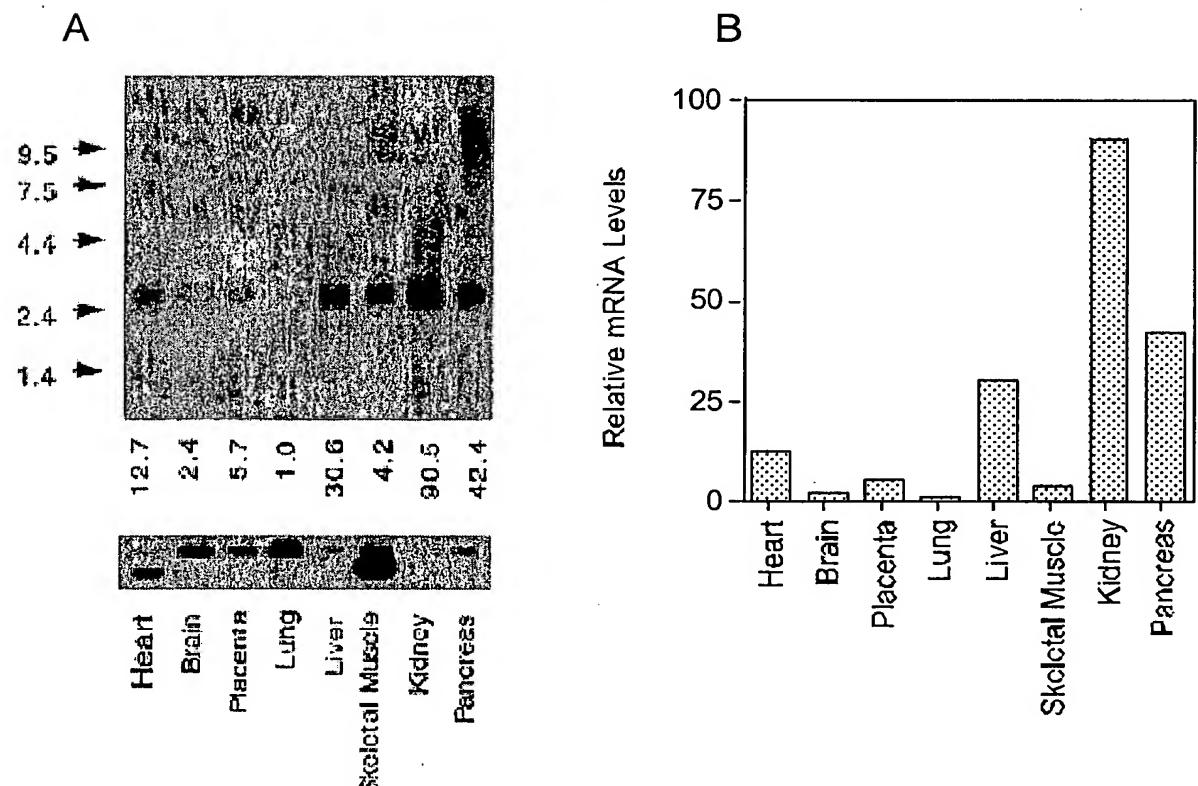


Fig 13

1 2 3 4 5 6 7 8 9

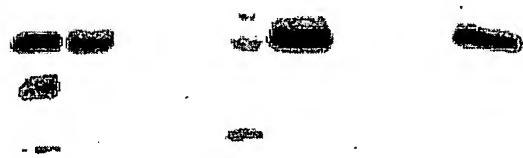


Fig 14

1 2 3 4 5

100 —

75 —

50 —

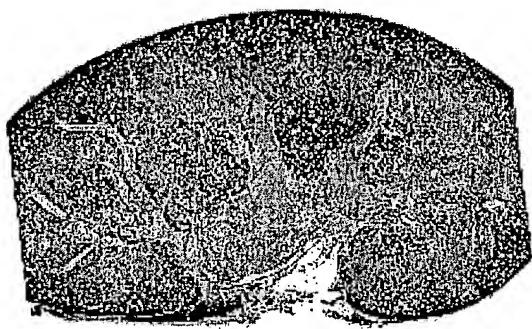


34.7 —

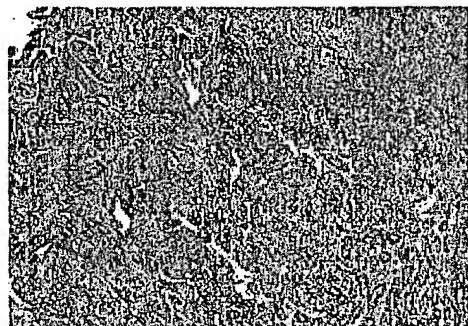
nmol/min/mg 5.2 6.2 4.0 3.7

Fig 15

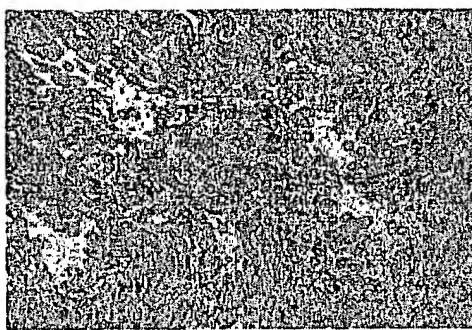
A



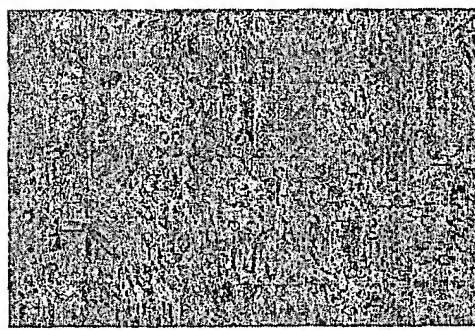
B



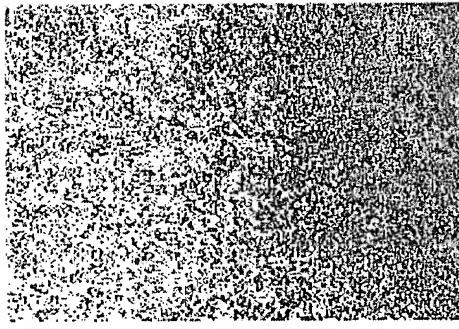
C



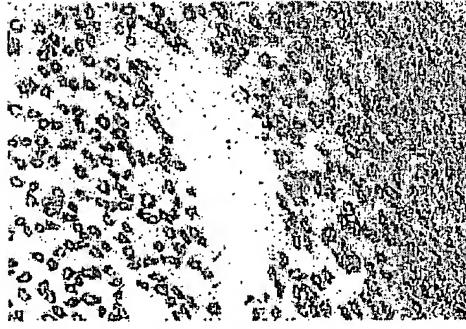
D



E



F



Title: Novel Targets for Lithium Therapy
Inventor: York et al.
Attorney Docket No. 180/158/2

Fig 16

A



B



Fig 17

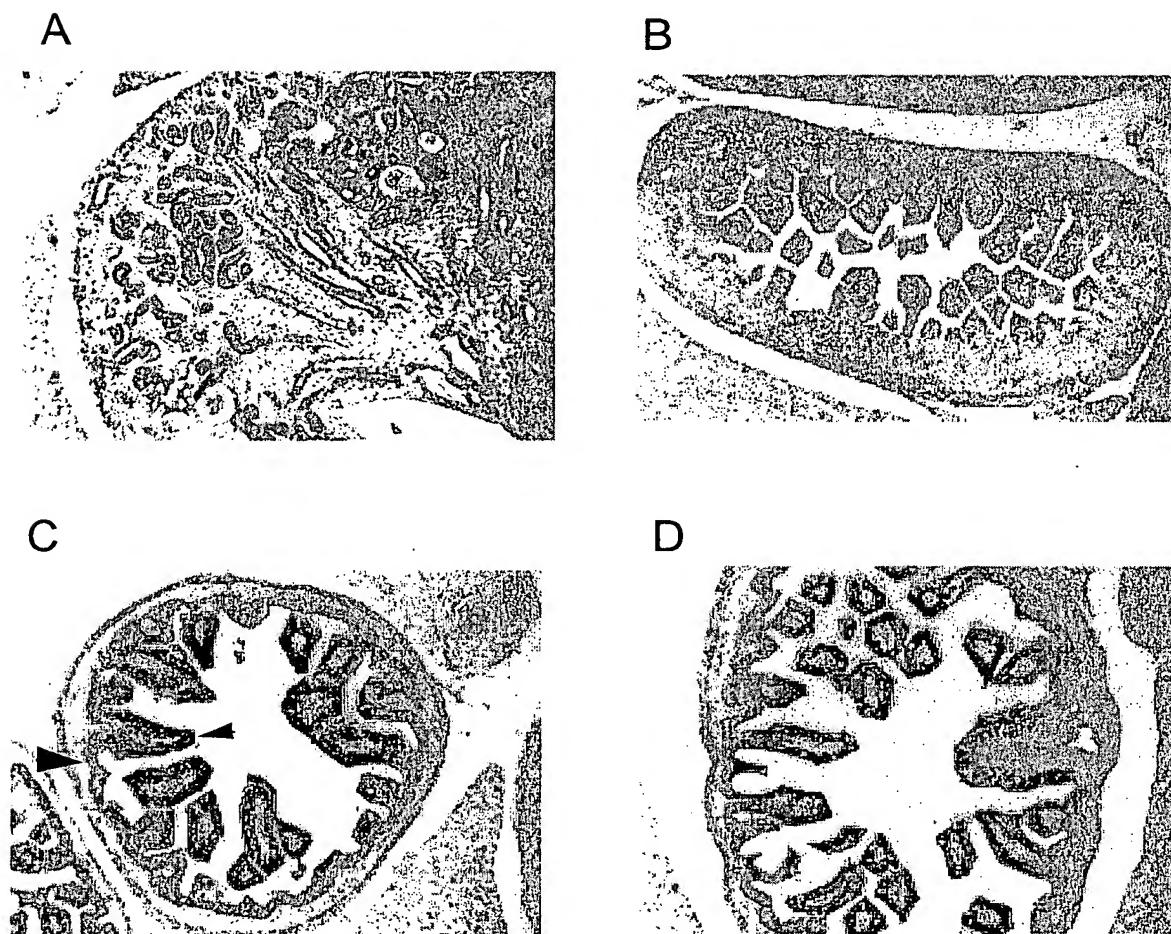
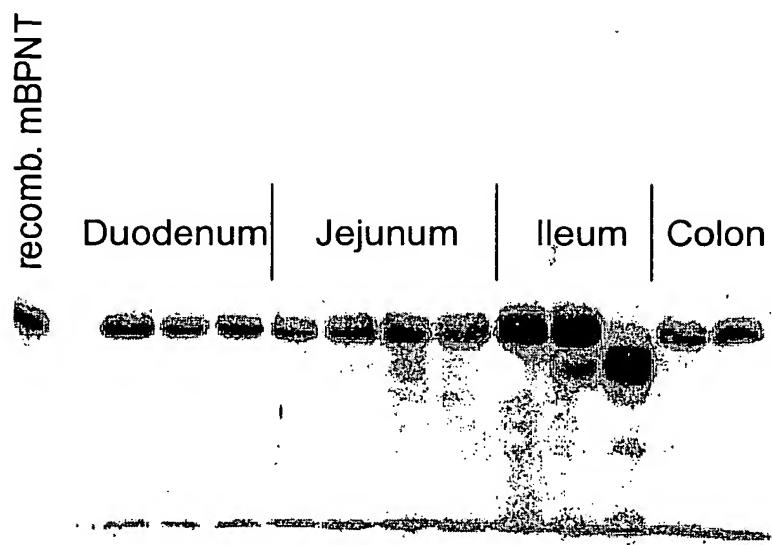


Fig 18



Title: Novel Targets for Lithium Therapy
Inventor: York et al.
Attorney Docket No. 180/158/2

Fig 19

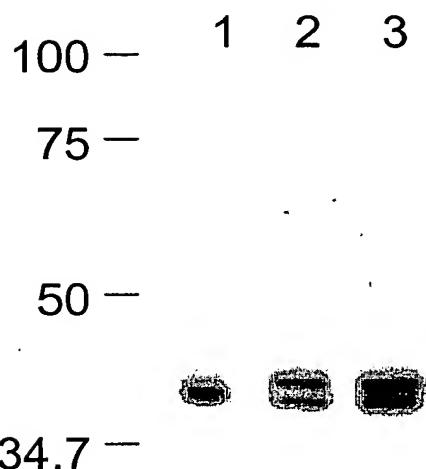


Fig 20

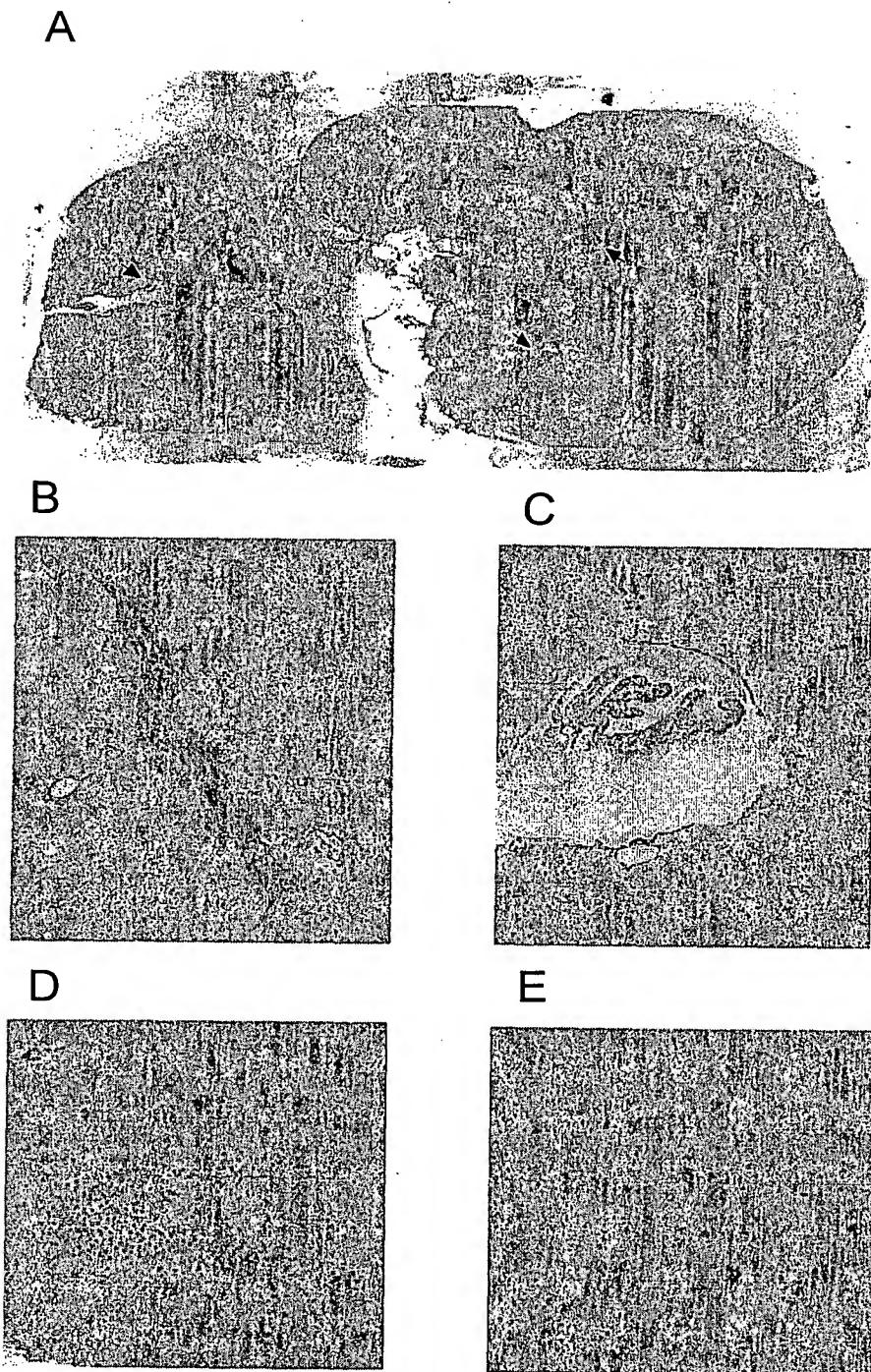


Fig 21

— 1 kb

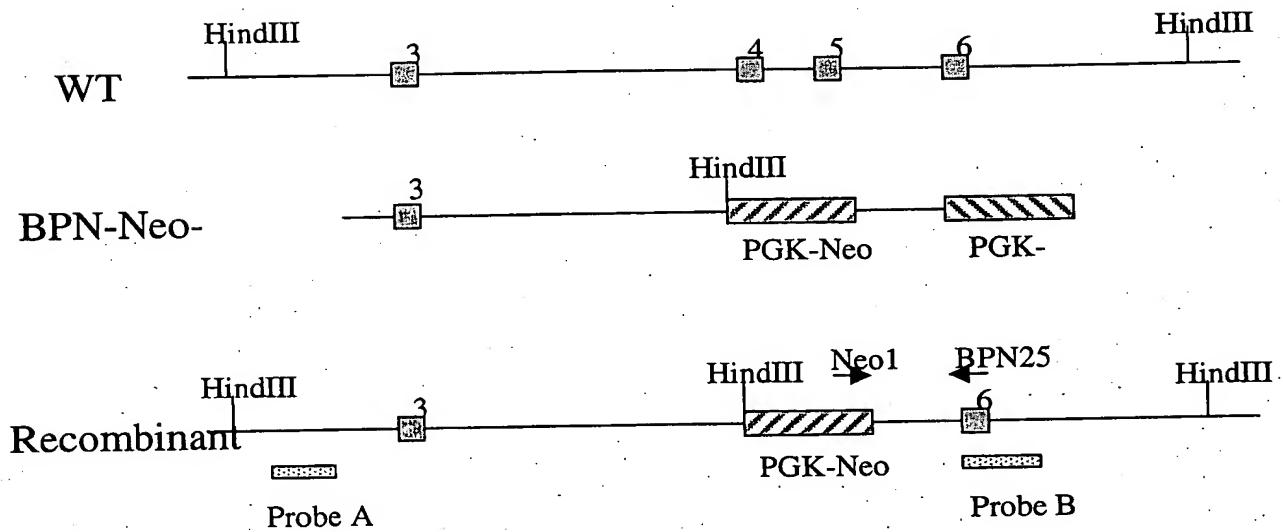


Fig 22A

	10	20	30	40	50	60	70	80	90	100
1	TGGCGAGCTT	GCTTATTCGT	CTTTCAAGGT	ATGGGGTTGT	ATAAAGCAGG	TGGGCCACA	CTGGGGTTTC	CCGACTCTTA	GCCCATTAA	AGCAGGTTGG
101	AATCTAGAGC	GTATGAAAG	AGTTTCTCAA	TTAGAGAAGA	GAATACCTT	AATAATTAA	AAGCACCTT	GCAACTTGA	ACTGTTGTTG	AGCTGGGAAT
201	CGAGTTCACT	GGTAGTCCTC	GCTTGGTGTG	TGTAGGGGC	GTGTTGATC	TCTATCAGCA	CACACACACA	CACACACAGC	CACGCACCCA	CCACACACAA
301	CACGCACGCA	CACACACACG	CACACACGA	CGCACACACG	CGCGCACACA	CACACACACA	CACACACACA	CACACACAGC	GTTTAAACT	ATGATTGTTT
401	ATGGTACAC	AGTTTACAC	GGTAGTACAA	GCTGATCTCA	GATTCTACGC	TGTCCTCTCA	TGTCCTGATA	TTAGAGCCGT	GCAGTGCTAT	CCAGCTTCAC
501	TTTCAGTCT	TTTTGTTGTT	TTGTTTGTGTT	TTGTTTGTGTT	TTGTTTGTGTT	TTGTTTGTGTT	TTGTTTGTGTT	TTAGAGCCGT	GCAGTGCTAT	CCAGCTTCAC
601	CTGAGACCA	GGCTGGCTC	GAACCTAGAA	ATCCGCTGC	CTCTGCTCC	CGAGTCTGG	GATTAAGGCG	GTGCCCCGCC	ACCCCGCCG	TCACCTCTCA
701	CTCTTACCTG	CTGTTACCTC	TCTGAGAACG	AGCAGGGGCC	CTCACTAGTT	GATCCCTGGG	CTCGGGCTCG	CGTTTACTG	GGAGATCGGA	AGACTGGTTA
801	CCCCGATTTC	TACTGATGAC	GAGATTTGCA	TTCTTGTGTA	CAGACCTCGG	CACCCGACT	CGACAGCAAA	GCCGACCGCT	TGGTCAAGAT	GAGCATATGCG
901	TCTTCCCTGG	CCCGGAAGTT	CCCGGAAGCTG	ACCATCATAG	GGGAGAGGCT	GAGAGGGCCG	CGGACACTTG	ATTCAACACC	TACCTGCGAT	TGAGCGCTAG
1001	GTATGGTCA	GTCTTACCGT	TGGCACTAAC	GTTCCAACAC	AAAGCGATCG	TTTTCCTAG	GGGGAAAT	TGACTTAATG	ATATTGTTG	CCACTTAATG
1101	GGCTAATAC	CCATTCTCTAG	TGATGGAGAC	TATGGTCACTC	ATTTGTTAAT	CTATGAGGCT	CTATGAGGCT	TGTGAAGCCC	TGGCTGCTCT	GGAACTCTAC
1201	AGTGGGAGA	CATCTCAGTC	ATAAGACCAT	GTGGCTCACA	TATGTTGAGG	CTGTTGCGT	GATCCCTGGG	CGTCTTCTCA	TCACCTCTCA	700
1301	TTCTGGAAC	CTGAGATGAC	TGGGCTGGT	TTGCTTGTCT	GCTTGTCCG	GACATTTAG	TGGAACTCTG	TGAACTACAC	TGAAACAATA	GACTATGTTT
1401	TAGTTTGTG	TTTTATTAAG	TTAGTTGTTG	TTAGTTGTTG	TGACATACATG	TAATACATTC	TGATTCTCTC	CATACTCCG	CTCTCCCTTC	1500
1501	TTCTTGGCCC	GGCCCTCTT	CCCACTTGTG	TTATTCAGGA	TCTACATGAT	GACATTTC	TGATTTCTC	CCATTGGTCA	TACCTGCGAT	1600
1601	GCAATGGCT	CCCTTTCCC	TGAATCAGTC	TGAGGAAAT	AGTTCTCGAG	TGAAGGAGAG	AGAGTGTGCG	TCTGCTAC	TCCTCCACCT	CTGCTTAACT
1701	TTGGGGACTC	ATCTCTCTC	AGACCCAGCA	CACTCATCG	GTGTTGAGA	CTTGGTTGAG	GCACCCCTGCA	TGACGTTA	TGAGGCTCTA	1200
1801	CTCCCCGTTT	TTCACTCTTC	ACCATCTTC	TGCCCCCTTC	CTACAAAGCC	TGTTAAGCT	GGAGGGGAT	AAATGCTAA	ATATCTTATT	CAGAGCTGAG
1901	CAATCAGCTG	TAAGTTTGTG	TTATTAGGCC	TTCATATATC	TCTCCCTCTA	TTATAGCTCT	TTATAGCTCT	CTAGAAAGAG	AATCTCTCT	2000
2001	TCCCTATGTG	AATAAACATC	TATATTAGG	AAGGTGTTG	ACACTGTGTTG	ACTTTAGTAA	AGCTGTAGAG	TTAACTCTCC	TAAGAGGACT	CATGGCTCC
2101	CTTTTATAC	ACTGAGTGGG	TCTCCAGACA	TGGAGTGTG	TTAACGTACT	AAGCGTGTGAT	TCCCAGCTG	GAGTGCCTG	CAAGAGCAGG	2100
2201	TAAGTACCCC	CCAACAGTC	CGAACACTGTT	TGTTGACCG	TGACACAGC	TGTCATGTC	AGAGTGTGCG	TCTGCTAC	TCCTCCACCT	1700
2301	TTTCTTCCCC	AGCAGCTGC	AGAGAAAATG	TGTCAGGTC	TGACTTCTT	GTCTCATGCA	ACCAARGTGT	GTGTTGTCAT	TAGCAGTAAG	GTCTTAGCAT
2401	CTAATCTGAG	TTGGCAACCA	AGAAAATG	CAATGCTCTA	ATTTGTTCTA	GGCAGTGGGA	CTCTCTGAC	CAACTATCA	GGAGGCACCA	CACACACAGC
2501	AGTGGGGGTT	TTAATGAAAG	ATAATTCTAC	AGGGGAGCAG	TTCTCTAGTC	TCTCTCTC	AACTTAAATA	AATGCTCTT	AGTTATTG	AGTAAATTGA
2601	AAATCAACAG	ATAAGTTAGT	TTCCAACAGT	GCGATGTGAC	GCCTCTGGAC	GTGTTGAGA	CAGCAGTATT	CCATGTACTG	GAGTAGCTG	CCATGTGCGC
2701	GAACAGCTGG	GGTACCGATG	CTGTTCTTAG	TGTTGTAAGG	AATTGCCACA	CCAGTCTTCA	TATGCTGCA	CTGTTTCCC	ACCAGCAATG	AAGGAGTCCC
2801	TCTTTTCCAC	CCTTCAACAGC	ACTGCTCTC	TGAGGTTTC	TTACGGATTG	CCATTCTGAC	AGGACAAGAT	AGACGTTTA	ATTGTTACTT	2900
2901	CCTTTGTC	TAATGATGTC	AAATACCTT	TAAAATGTTT	ATTTTCAAT	CTTCTTACTT	TTGAGAATT	TCTGTTCTG	CCATAGCCC	3000
3001	TTTTTGTG	ACACAGGGTC	TTTCTCTATG	TATCCCTGGC	TATGTTAGAAC	AGAGTTACCT	CAAAGCTGAC	AGAGATCCAT	CTACTTTAC	CTCCCAGGTG
3101	CTGGGATTTC	AGGCATGAC	ATTTTAAAG	TTATTAATAT	TTATTTGTG	ACCTGTTCT	GATCTGTTG	TGTGGATGGA	TGTTTGTGTT	GCCTGGATAG
3201	CTCTGCTCCA	CATGTCAGCC	AGTTACCTGC	GGTGGCCAGA	AGAGCCCATC	GGATGCCCTC	GAACCTGGAGT	TAGATGGTT	TGAGGCTGCC	TGTTGGGTGCT
3301	CGAAACAAG	CCTGGGTCT	CGGGAGAGCA	CGCTTGTCT	TACCTCTAG	CCACTCTCC	AGCTCCGGG	GTTGATTCTT	GTTCAGAGACA	GCAGAGAAGG
3401	CTCAGGCTTC	CCCTCTCTCC	GTGTTGACAT	CCAGCTCTTC	CAGGCCCACT	TGAGGTTCTC	CTGAGTGTCT	TGTTGTTGTT	TTTCAAGAAT	3500
3501	CAGGTGGCTG	TAATGTTATG	CACTTGTGAC	GGGGTTTCCA	TCTCTGTC	CTGAGTCACT	ATACCTCTTC	TGTCAGGCA	CCCTGCCCT	TGTTACCTCTG
3601	ATTCTGTTAGT	GTATTTTGG	CTCAGAATT	TTTGGCTGC	CTGGGCCCTT	TGTGTTTGC	ATCACTCATT	CTACCGATCC	ATGAGCAGGG	AGACCTTTCA
3701	TCTACTACTG	CTCTGCTTGA	TTCTCTCTT	TAGAGTTTT	TGAGACAGGG	TCTCACATAT	AATCTGGCT	GACCGGAAC	TCACTGTTG	GACCCAGCTG
3801	GCCTCAAAC	CRACAGACTC	GGTGGCTCT	TGCCCCCTGA	TGCTGGGGT	TGAAGGCTT	TGAGGCTGGG	CCTGGGATT	TCTCTGATT	TAAGGTTTC
3901	ATTGTAGAGG	TCTCTCACTT	CTTGCTTGG	GTTTCTCTG	AGGTACTTIG	TTAATTAAGG	CTGCTGTT	TGTTGATT	CTTCTTCACC	4000
4001	TTTTTGCCTA	TTGGTATAAA	AAAGCATGCC	ATGTTGTTG	CTCTGACACTG	TTTCTCTT	AGTAATCTA	GGAGCTTTG	GGTGGAGAGT	GTAGGGTCTC
4101	CCATGTACAG	CATTATATTC	TCTGTAGACA	GGAACACGCT	GTCTCTCTTA	TTTCTCTCTT	ATATTCCTT	CCCCTGTTG	TTTCTTGTGTT	TTAGCTAAGA
4201	CTAAACACAC	AAATCAGATGG	CCCTGTCTCC	CTCTCTAGTT	TAATGTTGAT	GTGTTGTTG	GGTTTGTG	CAGGGTCTCG	TTACTTAGCC	4300
4301	CCTGCTCAT	CCAAACCCAGT	GCTGGGATTA	CCAGTACACA	GGACTCTATA	AAAAGTTTT	TGTTTTGTGTT	ATTCTTTTA	TTTCTCTCTT	CTCTGACTC
4401	ACATGCCCC	TCCTGGCTG	GAGATCATGC	CAGAGTCTC	TGTGTGCTGG	GGAACTTCTG	GGAACTTCTG	TGATCTGCTG	TAACTCTG	4500
4501	CCAAAGTCAT	TCCCACTGTC	TCAGCTCTCC	AGCATTCTAA	AGGAAATTG	GGAAACAGAA	ATATGTAAG	GAAACTCTGAT	TTTCTGTTAA	4600
4601	ACAGATATGA	GGAAAAGGTT	TTGGGTCTC	TCTAGACGT	CCTGAGTCAG	GGTTTACATG	TGGTAGGAC	CCAGCGTGTG	GGCTTTCTGT	4700
4701	TTCTCTGTC	TCATACATTC	AACTGAGATG	GAAGCTCTC	GGGCAACATCT	AGCTGCTCAC	TCCCTCTCTT	TCGGCTCTG	CCAGCTCTT	4800
4801	CTATAAAAGC	TCTAAATATT	AGAGAAATTA	AACAGAAAGT	GCTAGGCTG	CCATTGCT				4858

Fig 22B

	10	20	30	40	50	60	70	80	90	100
1	GTAGCACCTC	ACATACTCTC	CCAGCTCCAG	AGCTAGGCC	CTCCCTGGGG	ATCACTGTTG	TACACTCTCT	TTCTCTGAGGG	ACTGTGCTGA	CATGTCCTGAC
101	TGGCTAGAG	AAATGCTCCA	CCACCCCTGG	TCCCCTAGCA	TCCCCCTCACC	TGAGGTTGTC	ACAGGTAAGA	AAACCGAGAAG	GCATCGAATT	AAATCCAGAG
201	GTGAAAAGT	CAGGAGGAGT	TGTGTGAGAG	CTCACACCTG	TAATCTCAG	AAAGCAAGGC	AGAGGGACTG	CTTGTGAGTT	GAGGCCATCT	TGAGTGTCTAT
301	ACATGGCAAG	TCTCTGGTCA	CTCTGGGTTA	GAGCAAGACC	TTTTCTAGGC	AAAGCAAGAC	ATTAGTCAGA	AGAACCCAGT	CTCAGAGCTG	GACTCTGGGT
401	TTTATTGTT	TTTTTGTGTT	TTTTTATTTT	TTGAGACAGG	GTTCCTCTGT	AAACTGCTGG	GTAGGCTCTG	TTTGTGAGTT	GAGGGACTG	500
501	CTCAGAAATC	TCCTGCTCTC	TGCCCTCCGA	GTGCTGGGAT	TAAAAGTGTG	CGCCACCATG	GCCTGCTTA	GACTTCAGT	TTTAAAGGCC	TAGAGTTGTA
601	TTTTGAAAT	AAAATGTCG	ATTGAGAAC	TGTGAGGCTG	AGGAGGAAG	ACTGTGAGGT	TTTCACTGTA	GTTTCAGTC	AGCCCTGAGAT	700
701	AGAGGAGCAG	TGTGAGGCCA	GAAGGACCCC	ACAAAAGAAAG	ACCTCCACAG	CGCTGCTCT	AAACGGTCCA	GCTTCAGAG	GCTTTCTCAC	AGCTGCGAGA
801	GAGAAATGTTG	TTGGCCCTG	GAGGAGATAG	AGTGTAGATG	ACTCTGTTG	TGTGTGAGTA	AAATATATCT	GTATACATG	TGAGGGTGCA	TGTTGTCAC
901	ATGCATATGT	ACTGTGAAAAA	TGTGTGAGAG	GCAGTGTGTT	CGTATGTGTT	TGTGTGAGTA	TAACCCATGC	GTATGTAATC	T	981

Fig 23

Triple-lox vectors for loxP/Cre targeted deletion

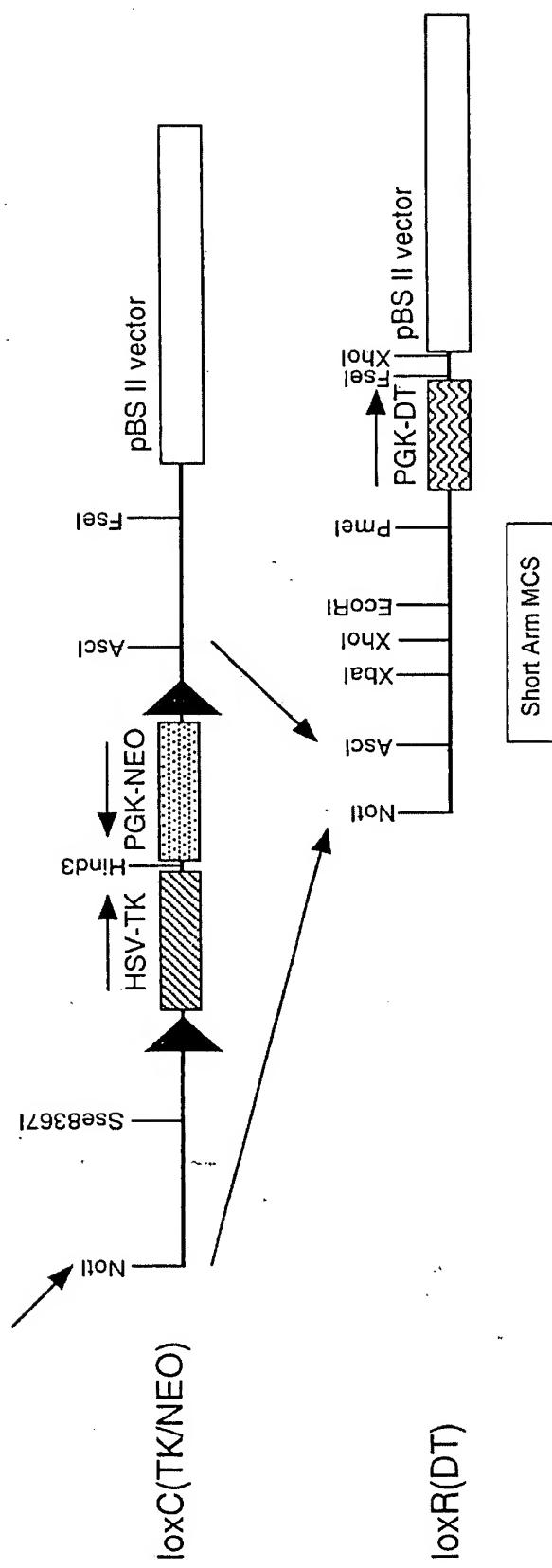


Fig 24

Structural motif involved in binding lithium

